

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An information recording medium on which ~~a plurality of~~ content information, which includes still picture information ~~constituting a series of contents,~~ is ~~multiplexed and recorded by a unit of packet, which is a physically accessible unit,~~ said information recording medium comprising:

an object data file, ~~which is a logically accessible unit,~~ for storing object data which comprises a plurality of packets including packets each storing therein a piece of the content information; and

a reproduction sequence information file for storing reproduction sequence information which defines a reproduction sequence of the object data; ~~and~~

~~an object information file for storing, as reproduction control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information,~~

wherein the plurality of packets constituting the object data include packets each storing therein a piece of respective one of still picture information sets, the still picture information set including at least one of the still picture information and still picture control information for controlling display of the still

~~picture information and further including structural information for indicating a structure of the still picture information set, and~~

with respect to at least one portion of the still picture information, a display control to the still picture information included in one still picture information set out of the still picture information sets is described by the still picture control information included in another still picture information set out of the still picture information sets.

2. (Currently Amended) The information recording medium according to claim 1, wherein the still picture information set includes at least one of first and third still picture information sets and includes a second still picture information set, out of (i) the first still picture information set for including the still picture information, the still picture control information, and ~~the structural information for indicating a structure of the still picture information set~~, (ii) the second still picture information set for including the still picture control information and the structural information but not including the still picture information, and (iii) the third still picture information set for including the still picture information and the structural information but not including the still picture control information.

3. (Original) The information recording medium according to claim 2, wherein a display control to the still picture information included in at least one of the first and third still

picture information sets is described by the still picture control information included in the second still picture information set.

4. (Original) The information recording medium according to claim 2, wherein a display control to the still picture information included in at least one of the first and third still picture information sets is described by a plurality of the still picture control information included in a plurality of the second still picture information set, so as to perform a plurality of mutually different display controls.

5. (Currently Amended) The information recording medium according to claim ~~[[1]]~~ 2, wherein a packet storing the structural information therein is disposed at a head position of the plurality of packets associated with the still picture information set.

6. (Currently amended) The information recording medium according to claim 1, ~~wherein out of an identifier of the still picture information, a data length of the still picture control information, a data length of the still picture information, and position information for indicating a recording position of the still picture information, the structural information includes at least the identifier~~

a plurality of content information, which includes the still picture information constituting a series of contents, is multiplexed-and-recorded as the content information by the unit of packet on said information recording medium,

said information recording medium further comprises an object information file for storing, as reproduction control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information, and

the still picture information set further includes structural information for indicating a structure of the still picture information set.

7. (Cancelled)

8. (Original) The information recording medium according to claim 1, wherein the object data comprises an entire stream which includes a plurality of portion streams, each comprising the content information, and which is multiplexed by a unit of packet, and

the still picture information set is included in the object data as one or a plurality of portion streams for the still picture information set.

9. (Original) The information recording medium according to claim 8, wherein the correspondence definition information has address information including a serial number, which is associated with the packets constituting each portion stream and satisfying a predetermined condition, and a display start time

point corresponding to this, for each of the plurality of portion streams.

10. (Original) The information recording medium according to claim 9, wherein the correspondence definition information includes:

a flag for indicating whether or not there is a head packet of the still picture information set for including the still picture information, in an entry section specified by two packets adjacent to each other, in an arrangement of only packets whose positions are specified by the address information out of the plurality of packets constituting the portion stream; and

a flag for indicating whether or not there is a head packet of the still picture information set for including the still picture control information, in the entry section.

11. (Original) The information recording medium according to claim 9, wherein if the content information includes video information based on a MPEG 2 (Moving Picture Experts Group phase 2) standard, the address information includes a serial number of the packets associated with an I picture and a display start time point corresponding thereto.

12. (Currently Amended) An information recording apparatus for ~~multiplexing and recording a plurality of~~ content information, which includes still picture information ~~constituting a series of~~ contents, onto an information recording medium by a unit of

~~packet, which is a physically accessible unit,~~

said information recording apparatus comprising:

a first recording device for recording an object data file,
~~which is a logically accessible unit,~~ for storing object data
which comprises a plurality of packets including packets each
storing therein a piece of the content information; and

a second recording device for recording a reproduction
sequence information file for storing reproduction sequence
information which defines a reproduction sequence of the object
data; ~~and~~

~~— a third recording device for recording an object information
file for storing, as reproduction control information for
controlling reproduction of said object data, correspondence
definition information for defining a correspondence relationship
between the plurality of packets which are multiplexed and the
plurality of content information,~~

wherein the plurality of packets constituting the object data
include packets each storing therein a piece of respective one of
still picture information sets, the still picture information set
including at least one of the still picture information and still
picture control information for controlling display of the still
picture information ~~and further including structural information
for indicating a structure of the still picture information set,~~
and

with respect to at least one portion of the still picture
information, a display control to the still picture information
included in one still picture information set out of the still
picture information sets is described by the still picture control

information included in another still picture information set out of the still picture information sets.

13. (Currently Amended) An information recording method of ~~multiplexing and recording a plurality of content information,~~ which includes still picture information ~~constituting a series of contents,~~ onto an information recording medium by a unit of packet, ~~which is a physically accessible unit,~~

said information recording method comprising:

a first recording process of recording an object data file, ~~which is a logically accessible unit,~~ for storing object data which comprises a plurality of packets including packets each storing therein a piece of the content information; and

a second recording process of recording a reproduction sequence information file for storing reproduction sequence information which defines a reproduction sequence of the object data; ~~and~~

~~— a third recording process of recording an object information file for storing, as reproduction control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information,~~

wherein the plurality of packets constituting the object data include packets each storing therein a piece of respective one of still picture information sets, the still picture information set including at least one of the still picture information and still picture control information for controlling display of the still picture information ~~and further including structural information~~

~~for indicating a structure of the still picture information set,~~
and

with respect to at least one portion of the still picture information, a display control to the still picture information included in one still picture information set out of the still picture information set is described by the still picture control information included in another still picture information set out of the still picture information sets.

14. (Currently Amended) An information reproducing apparatus for reproducing recorded content information from an information recording medium on which ~~a plurality of the content information,~~ which includes still picture information ~~constituting a series of contents,~~ is multiplexed and recorded by a unit of packet, ~~which is a physically accessible unit,~~ said information recording medium comprising: an object data file, ~~which is a logically accessible unit,~~ for storing object data which comprises a plurality of packets including packets each storing therein a piece of the content information; and a reproduction sequence information file for storing reproduction sequence information which defines a reproduction sequence of the object data, ~~and an object information file for storing, as reproduction control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information,~~ wherein the plurality of packets constituting the object data include packets each storing therein

a piece of respective one of still picture information sets, the still picture information set including at least one of the still picture information and still picture control information for controlling display of the still picture information ~~and further including structural information for indicating a structure of the still picture information set~~, and with respect to at least one portion of the still picture information, a display control to the still picture information included in one still picture information set out of the still picture information sets is described by the still picture control information included in another still picture information set out of the still picture information sets,

said information reproducing apparatus comprising:

a reading device for ~~physically~~ reading information from said information recording medium; and

a reproducing device for reproducing the object data included in the information read by said reading device on the basis of ~~the reproduction control information and~~ the reproduction sequence information included in the information read by said reading device.

15. (Original) The information reproducing apparatus according to claim 14, wherein said reproducing device temporarily stores at least one of the still picture information and the still picture control information into a buffer and performs a display control to the still picture information included in the one still picture information set on the basis of the still picture control information included in the another still picture information set.

16. (Currently Amended) An information reproducing method of reproducing recorded content information from an information recording medium on which ~~a plurality of the content information,~~ which includes still picture information ~~constituting a series of contents,~~ is ~~multiplexed and~~ recorded by a unit of packet, ~~which is a physically accessible unit,~~ said information recording medium comprising: an object data file, ~~which is a logically accessible unit,~~ for storing object data which comprises a plurality of packets including packets each storing therein a piece of the content information; and a reproduction sequence information file for storing reproduction sequence information which defines a reproduction sequence of the object data; ~~and an object information file for storing, as reproduction control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information,~~ wherein the plurality of packets constituting the object data include packets each storing therein a piece of respective one of still picture information sets, the still picture information set including at least one of the still picture information and still picture control information for controlling display of the still picture information ~~and further including structural information for indicating a structure of the still picture information set,~~ and with respect to at least one portion of the still picture information, a display control to the still picture information included in one still picture information set out of the still picture information sets is

described by the still picture control information included in another still picture information set out of the still picture information sets,

said information reproducing method comprising:

a reading process of ~~physically~~-reading information from said information recording medium; and

a reproducing process of reproducing the object data included in the information read by said reading process on the basis of ~~the reproduction control information and~~ the reproduction sequence information included in the information read by said reading process.

17-18. (Cancelled)

19. (Currently Amended) A computer program product for controlling record and for tangibly embodying a program of instructions executable by a computer to make the computer function as at least one portion of a first recording device, and a second recording device, ~~and a third recording device,~~

the computer being provided in an information recording apparatus for ~~multiplexing and recording a plurality of content information, which includes still picture information constituting a series of contents,~~ onto an information recording medium by a unit of packet, ~~which is a physically accessible unit,~~

said information recording apparatus comprising:

said first recording device for recording an object data file, ~~which is a logically accessible unit,~~ for storing object data which comprises a plurality of packets including packets each

storing therein a piece of the content information; and

said second recording device for recording a reproduction sequence information file for storing reproduction sequence information which defines a reproduction sequence of the object data; ~~and~~

~~—said third recording device for recording an object information file for storing, as reproduction control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information,~~

wherein the plurality of packets constituting the object data include packets each storing therein a piece of respective one of still picture information sets, the still picture information set including at least one of the still picture information and still picture control information for controlling display of the still picture information ~~and further including structural information for indicating a structure of the still picture information set,~~ and

with respect to at least one portion of the still picture information, a display control to the still picture information included in one still picture information set out of the still picture information sets is described by the still picture control information included in another still picture information set out of the still picture information sets.

20. (Currently Amended) A computer program product for controlling reproduction and for tangibly embodying a program of

instructions executable by a computer to make the computer function as at least one portion of a reproducing device,

the computer being provided in an information reproducing apparatus for reproducing recorded content information from an information recording medium on which ~~a plurality of the content information, which includes still picture information constituting a series of contents, is multiplexed and recorded by a unit of packet, which is a physically accessible unit,~~ said information recording medium comprising: an object data file, ~~which is a logically accessible unit,~~ for storing object data which comprises a plurality of packets including packets each storing therein a piece of the content information; and a reproduction sequence information file for storing reproduction sequence information which defines a reproduction sequence of the object data; ~~and an object information file for storing, as reproduction control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information, wherein the plurality of packets constituting the object data include packets each storing therein a piece of respective one of still picture information sets, the still picture information set including at least one of the still picture information and still picture control information for controlling display of the still picture information and further including structural information for indicating a structure of the still picture information set,~~ and with respect to at least one portion of the still picture information, a display control to the still picture information

included in one still picture information set out of the still picture information sets is described by the still picture control information included in another still picture information set out of the still picture information sets,

said information reproducing apparatus comprising:

a reading device for ~~physically~~ reading information from said information recording medium; and

said reproducing device for reproducing the object data included in the information read by said reading device on the basis of ~~the reproduction control information and the~~ reproduction sequence information included in the information read by said reading device.

21. (Cancelled)

22. (Currently Amended) A data structure including a control signal, in which ~~a plurality of~~ content information, which includes still picture information ~~constituting a series of~~ contents, is ~~multiplexed and~~ recorded by a unit of packet, which ~~is a physically accessible unit,~~ comprising:

an object data file, ~~which is a logically accessible unit,~~ for storing object data which comprises a plurality of packets including packets each storing therein a piece of the content information; and

a reproduction sequence information file for storing reproduction sequence information which defines a reproduction sequence of the object data; ~~and~~

~~an object information file for storing, as reproduction~~

~~control information for controlling reproduction of said object data, correspondence definition information for defining a correspondence relationship between the plurality of packets which are multiplexed and the plurality of content information,~~

wherein the plurality of packets constituting the object data include packets each storing therein a piece of respective one of still picture information sets, the still picture information set including at least one of the still picture information and still picture control information for controlling display of the still picture information ~~and further including structural information for indicating a structure of the still picture information set,~~ and

with respect to at least one portion of the still picture information, a display control to the still picture information included in one still picture information set out of the still picture information sets is described by the still picture control information included in another still picture information set out of the still picture information sets.